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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20096**Generic Copy

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**Issue Date:** 28-Jun-2013**TITLE:** Assembly Qualification of uDFN and uQFN Analog Switch Family at ATP3 for expansion.**PROPOSED FIRST SHIP DATE:** 28-Sep-2013**AFFECTED CHANGE CATEGORY(S):** Assembly Location AmKor-P3 (ATP-3)**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**Contact your local ON Semiconductor Sales Office or [Todd.Manes@onsemi.com](mailto:Todd.Manes@onsemi.com).**SAMPLES:** Contact your local ON Semiconductor Sales Office or [Ricardo.Avila@onsemi.com](mailto:Ricardo.Avila@onsemi.com)**ADDITIONAL RELIABILITY DATA:** AvailableContact your local ON Semiconductor Sales Office or [Edmond.Gallard@onsemi.com](mailto:Edmond.Gallard@onsemi.com).**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact [<quality@onsemi.com>](mailto:quality@onsemi.com).**DESCRIPTION AND PURPOSE:**

ON Semiconductor is pleased to announce additional assembly capacity at AmKor-Philippines.

The device family is Analog Switches which are currently produced at ON Semiconductor's Seremban Malaysia location and subcontractor UTAC Bangkok Thailand location.

The Analog Switch product family will continue to be assembled in qualified locations as the qualification of AmKor Philippines is for additional capacity. No changes to packaging will occur as a result of this assembly qualification.

Upon expiration (or approval) of this Final PCN, devices may be supplied by either assembly location to include AmKor Philippines, ON Semiconductor's Seremban Malaysia location and UTAC Bangkok Thailand.

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The Analog Switch Products assembled at AmKor Philipines have been qualified based on the following test results:

<b>Test</b>	<b>Conditions</b>	<b>Results</b>
High Temp Op Life	Ta= +125C; 504hrs, 1008hrs DPA	0/80 3 lots
High Temp Storage	Ta=150C; 504hrs, 1008hrs, 2016hrs	0/80 3 lots
Preconditioning + Temperature Cycling	MSL1 @ 260C; -65C/ +150C; Air to Air; 500cy, 1000Cy DPA CDPA	0/80 3 lots
Preconditioning + Highly Accelerated Stress Test	MSL @ 260C, 130C/ 85% RH/ PSIG=18.8 bias 96hrs	0/80 3 lots
Preconditioning + Unbiased Highly Accelerated Stress Test	MSL @ 260C, 130C/ 85% RH/ PSIG=18.8 no bias 96hrs	0/80 3 lots
Ball Shear Test	CPK > 1.33 on 30 Bonds from 5 units	Pass
Wire Pull Strength	Cpk > 1.67 on 30 Bonds from 5 units	Pass
Electrical Distribution	3Temps -40°, 25°, 80°C. Cpk > 1.67	Pass

**ELECTRICAL CHARACTERISTIC SUMMARY:**

Electrical characterization test data has been obtained on ATP3 assembled product. No significant changes in part performance as compared to the existing SBN or UTAC assembled product were observed. Electrical characteristics meet or exceed the device specification.

**CHANGED PART IDENTIFICATION:**

Devices with date codes of 2013 work week31 or later may be sourced from either assembly location ATP3, SBN or UTAC.



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**List of affected General Parts:**

NLAS4717EPMTR2G  
NLAS5123MNR2G  
NLAS5123MUR2G  
NLAS5124MUR2G  
NLAS5157MUTCG  
NLAS5213AMUTAG  
NLAS5213BMUTAG  
NLAS52231MUR2G  
NLAS5223AMNR2G  
NLAS5223BLMNR2G  
NLAS5223BMUR2G  
NLAS5223MNR2G  
NLAS7213MUTBG  
NLAS7222AMTR2G  
NLAS7222AMUR2G  
NLAS7222AMUTAG  
NLAS7222BMUTAG  
NLAS7222BMUTBG  
NLAS7222CMUTBG  
NLAS7223BMUTBG  
NLAS7223CMUTBG  
NLAS7242MUTBG  
NLAS9031MTR2G  
NLAS9051MNR2G

**List of affected Customer Specific Parts:**

SLAS4717EPMTR2G